

Transfer Station

Compliance First: Evaluation of Solid Waste Facilities' State Standards

Training Provided By:

California Integrated Waste Management Board (CIWMB)

Introduction

Transfer stations receive waste from commercial and/or residential customers. The waste is consolidated into large payload trailers or rail containers then transported to a regional landfill.

Basic Operations

- The transfer process typically includes:
 - Receiving
 - Processing
 - Diversion (in some cases)
 - Loading
 - Transferring



Factors Affecting Compliance

- What are some factors that could affect a transfer station's ability to comply?
 - Tonnage
 - Management style / attitude
 - Revenue
 - Location
 - Design parameters
 - Era
 - Volume
 - Access
 - Type of facility

Top Violations

- *T14 17407.2 Cleaning*
- *T14 17407.5 Hazardous, Liquid, and Spec. Wastes*
- *T14 17408.1 Litter Control*
- *T14 17408.5 Nuisance Control*
- *T14 17408.6 Maintenance Program*
- *T14 17409.4 Signs*
- *T14 17410.1 Solid Waste Removal*
- *T14 17410.2 Supervision and Personnel*
- *T14 17414 Record Keeping Requirements*

Cleaning

14 CCR § Section 17407.2

- *(a) Operations, facilities, and their equipment, boxes, bins, pits and other types of containers shall be cleaned using the following schedule, or at a lesser frequency approved by the EA, in order to prevent the propagation or attraction of flies, rodents, or other vectors.*



Cleaning

14 CCR § Section 17407.2

- *(1) All operations and facilities shall be cleaned each operating day of all loose materials and litter.*



Cleaning

14 CCR § Section 17407.2

- *(2) All operations or facilities that operate 24 hours per day must clean operations or facilities at least once every 24 hours.*



Cleaning

14 CCR § Section 17407.2

- *(b) The entrance and exit shall be cleaned at a frequency which prevents the tracking or off-site migration of waste materials.*



Truck Wash ...Alternative?

- In order to minimize tracking, some facilities have installed a “rumble strip” in the outbound lane to help remove mud from tires
- Other facilities have constructed truck wash facilities to reduce tracking



Cleaning: Pros and Cons

- What are the benefits and drawbacks associated with cleaning the tipping floor every 24 hours?
 1. Reduces fire danger
 2. Reduces odor problems
 3. Minimizes vector problems
 4. Mass balance is difficult
 5. High-tonnage days can impact landfill's schedule



Hazardous, Liquid, and Special Wastes

14 CCR §17407.5

- *(a) An operation or facility shall not intentionally accept or store hazardous wastes, including batteries, oil, paint, and special wastes, unless it has been approved to handle the particular waste by the appropriate regulatory agencies. Such approvals shall be placed in the operating record.*



Hazardous, Liquid, and Special Wastes

14 CCR §17407.5

- *(b) At operations and facilities where unauthorized hazardous wastes are discovered, control measures as are necessary to protect public health, safety and the environment, such as elimination or control of dusts, fumes, mists, vapors or gases shall be taken prior to isolation or removal from the operation or facility,*



Hazardous, Liquid, and Special Wastes

14 CCR §17407.5

- *(c) Liquid wastes and sludges shall not be accepted or stored at an operation or facility unless the operator has written approval to accept such wastes from the appropriate agencies and the EA.*



Litter Control

14 CCR § Section 17408.1

- *Litter at operations and facilities shall be controlled, and routinely collected to prevent safety hazards, nuisances or similar problems and off-site migration to the greatest extent possible given existing weather conditions.*



Prescriptive vs. Performance

- Visible litter on a windy day may not be indicative of a serious problem with the facility's litter control system
- Conversely, a lack of litter may not indicate properly working litter-control program



Covered Loads Reduce Litter

- Uncovered loads create significant litter along roads leading to transfer stations.
- Requiring that loads be covered and charging customers an additional fee when loads aren't covered may minimize spilled litter along roadways.



Nuisance Control

14 CCR § Section 17408.5

- *Each operation and facility shall be conducted and maintained to prevent the creation of a nuisance. Compliance with specific provisions regarding nuisance control in a local land use approval, such as a conditional use permit or CEQA mitigation measures, shall be considered compliance with this standard.*





Maintenance Program

14 CCR § Section 17408.6

- *All aspects of the operation or facility shall be maintained in a state of good repair. The operator shall implement a preventative maintenance program to monitor and promptly repair or correct deteriorated or defective conditions. This includes the facility improvements such as access roads, buildings and other improvements, along with equipment.*





Maintenance Includes:

- Roads
- Building
- Equipment
- Other?



Signs

14 CCR § Section 17409.4

- *(a) For operations or facilities not open to the public, each point of access from a public road shall be posted with an easily visible sign indicating the operation or facility name and location of nearest public operation or facility.*
- *(b) If the operation or facility is open to the public, there shall be an easily visible sign at all public entrances indicating the name of the operator, the operator's telephone number, schedule of charges, hours of operation, and a listing of the general types of materials which either (1) WILL be accepted, or (2) WILL NOT be accepted.*

Non-verbal Communication

- Communication goes far beyond the words on a sign.
- What do these signs communicate to the customer?



Rule of Thumb - Signs

- In order to be effective, signs should be clear and to the point.
- Remember, customers are unlikely to take the time to read long wordy signs.
- Say what you mean and mean what you say.



Solid Waste Removal

14 CCR § Section 17410.1

■ *(a) All solid wastes shall be removed at the following frequencies or at an alternate frequency approved by the EA, in order to prevent the propagation or attraction of flies, rodents or other vectors:*

- *(1) operations shall remove solid wastes accepted at the site within 7 days from the date of receipt;*
- *(2) facilities shall remove solid waste accepted at the site within 48 hours from the time of receipt.*



Supervision and Personnel

14 CCR § Section 17410.2

- *The operator shall provide adequate supervision and a sufficient number of qualified personnel to ensure proper operation of the site in compliance with all applicable laws, regulations, permit conditions and other requirements. The operator shall notify the EA in writing of the name, address and telephone number of the operator or other person responsible for the operation. A copy of the written notification shall be placed in the operating record.*



Supervision & Personnel

- What are some indicators that a site is understaffed?
 - No supervisor on-site
 - Work not getting done
 - Chronic problems
 - Maintenance
 - Litter
 - Cleaning
 - Other?

Record Keeping Requirements

14 CCR § Section 17414

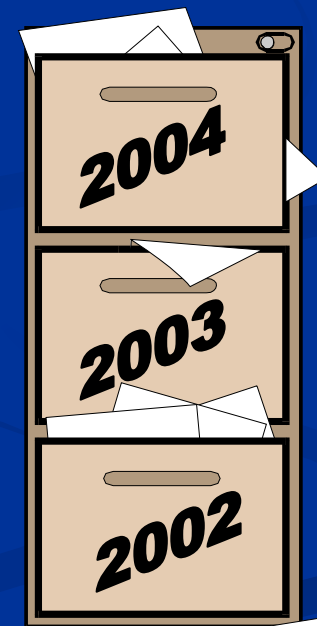
- *(a) each operator shall maintain records of incoming weights or volumes and outgoing salvage or residual weights or volumes in a form and manner approved by the EA. Such records shall be: submitted to the EA or CIWMB upon request; be adequate for overall planning and control purposes; and, be as current and accurate as practicable;*



Record Keeping Requirements

14 CCR § Section 17414

- *(b) all records required by this Article shall be kept by the operator in one location and accessible for three (3) years and shall be available for inspection by the EA and other duly authorized regulatory agencies during normal working hours.;*
- *(c) the operator shall submit copies of specified records to the EA upon request or at a frequency approved by the EA;*



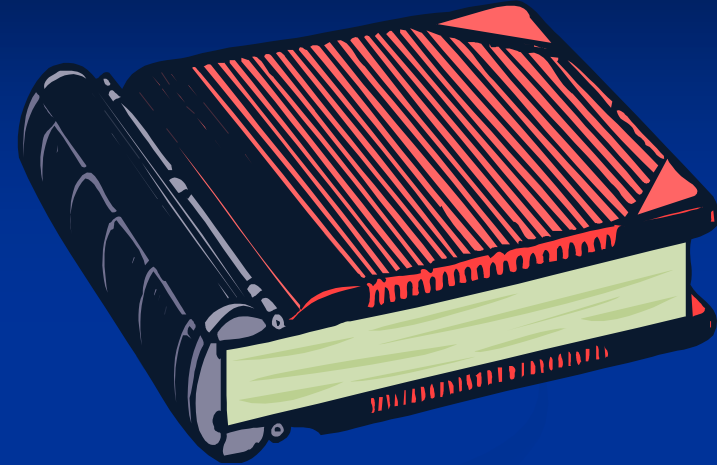
Record Keeping Requirements

14 CCR § Section 17414

- *(d) the operator shall maintain a daily log book or file of special occurrences encountered during operations and methods used to resolve problems arising from these events, including details of all incidents that required implementing emergency procedures. Special occurrences shall include but are not limited to: fires, injury and property damage, accidents, explosions, receipt or rejection of prohibited wastes, lack of sufficient number of personnel pursuant to section 17410.2, flooding, earthquake damage and other unusual occurrences. In addition, the operator shall notify the EA by telephone within 24 hours of all incidents requiring the implementation of emergency procedures, unless the EA determines that a less immediate form of notification will be sufficient to protect public health and safety and the environment;*

Daily Log Includes:

- Special occurrences
 - Fires
 - Injuries or Property damage
 - Accidents
 - Explosions
 - Receipt or rejection of prohibited wastes
 - Lack of sufficient No. of personnel
 - Flooding or earthquake damage
- Methods used to resolve problems
- Details of all incidents that require emergency procedures



*Site Supervisor
...not secretary*

Record Keeping Requirements

14 CCR § Section 17414

- *(e) the operator shall record any written public complaints received by the operator, including:*
 - *(1) the nature of the complaint,*
 - *(2) the date the complaint was received,*
 - *(3) if available, the name, address, and telephone number of the person or persons making the complaint, and*
 - *(4) any actions taken to respond to the complaint;*



Record Keeping Requirements

14 CCR § Section 17414

- *(f) the operator shall maintain a copy of the written notification to the EA and local health agency of the name, address and telephone number of the operator or other person(s) responsible for the operations as required by section 17410.2;*



Record Keeping Requirements

14 CCR § Section 17414

- *(g) the operator shall maintain records of employee training as required by section 17410.3;*
- *(h) all transfer/processing operations and facilities shall maintain records as required by section 18809 et seq.*

Training Records

- Must indicate that training is occurring
- Must provide adequate documentation
- Topics must apply to operation
- Where does the inspector's responsibility and authority start and stop in regard to training verification?



What Triggers a Violation?

- No training records
- Training records unavailable
- Inadequate training records
- Anything else?

Virtual Inspection Photo 1

- Cleaning...
Any problems here?





Virtual Inspection Photo 2

- Hazardous Waste...
Any problems here?





Virtual Inspection Photo 3

- Maintenance...
What ways can we
provide adequate
maintenance?





Virtual Inspection Photo 4

- Litter Control...
Any problems here?





Virtual Inspection Photo 5

- Usable Signs...
Any problems here?



NO HAZZARDIOUS
WASTE

NO - OIL
NO BATERYS
NO PAINT
NO SOLVENT
NO NOTHING

FOR INFO
CAL PHASIA
CO PUBLIC
WORKS
OR
ENVIRO
HEALTH

Virtual Inspection Photo 6

- Solid Waste Removal...
In what ways do we remove solid waste?





Virtual Inspection Photo 7

- Supervision and Personnel...
Do we have an adequate amount of personnel at our facility?



Wrap up Questions?

- Any questions on transfer station facilities?
- How about some examples of what you see out there in the real world?

